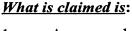
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1. A purge solenoid valve assembly having a valve driven by a solenoid, the assembly comprising:

a coil which, when energized, drives the valve; and

a cap;

wherein the cap is overmolded and the coil is encapsulated in the cap.

- 2. The assembly according to claim 1, further comprising: a calibration feature encapsulated in the cap.
- 3. The assembly according to claim 1, further comprising:
 an electrical connector, the connector molded as a portion of the cap.
- 4. The assembly according to claim 1, wherein the assembly is adapted to be coupled by snapping into a discrete lower body.
- 5. The assembly according to claim 1, wherein the assembly is adapted to be coupled by snapping into an intake manifold.
- 6. A purge solenoid valve assembly having a valve driven by a solenoid, the assembly comprising:

a bobbin;

a wire wound around the bobbin;

at least one terminal electrically connected to the wire; and

an overmolded cap generally encapsulating the bobbin and the wire, the overmolded cap including a connector body formation partially encapsulating the at least one terminal.



The assembly according to claim 6, further comprising:

a pin displaceable with respect to the bobbin when an electric current flows through the wire; and

a pin displacement calibration feature including a resilient element biasing the pin with respect to the overmolded cap and a first locator adjusting the position of the resilient element with respect to the overmolded cap.



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- 8. The assembly according to claim 7, wherein the pin displacement calibration feature further includes a second locator connecting the resilient element with respect to the pin.
- 9. The assembly according to claim 7, wherein the resilient element includes a coil spring.
- 10. The assembly according to claim 7, wherein the first locator threadably engages the overmolded cap.
- 11. The assembly according to claim 6, wherein the overmolded cap further includes a locking feature adapted for releasable retaining an electrical connector with respect to the connection body formation.
- 12. The assembly according to claim 6, wherein the overmolded cap further includes a snap fastening feature adapted for securing the overmolded cap to a mount.
- 13. The assembly according to claim 12, wherein the snap fastening feature is adapted for enabling the connection body formation to be reoriented with respect to the mount.
 - 14. The assembly according to claim 7, further comprising: at least one bearing unit guiding displacement of the pin with respect to the cap;

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- a stator at least partially encapsulated by the overmolded cap and magnetically connected to a magnetic field created by the electric current flowing through the wire; and an armature portion of the pin responsive to the magnetic field.
- 15. The assembly according to claim 14, wherein the resilient element includes a coil spring, the pin displacement calibration feature further includes a second locator connecting the coil spring with respect to the pin, and the first locator threadably engages the overmolded cap.
- 16. The assembly according to claim 15, wherein the overmolded cap further includes a locking feature adapted for releasable retaining an electrical connector with respect to the connection body formation, and also further includes a snap fastening feature that enables the connection body formation to be reoriented with respect to a mount having a valve seat that engages the pin to control fluid flow.
- 17. A method of assembling a linear solenoid purge valve component, the method comprising:

winding a wire around a bobbin;

electrically connecting the wire to a terminal; and

overmolding a cap that generally encapsulates the wire and bobbin, and that partially encapsulates the terminal.

18. The method according to claim 17, further comprising:

providing a resilient element biasing a first locating member with respect to the cap;
engaging a second locating member with respect to the cap; and
adjusting the second locating member with respect to the cap to vary the biasing force
between the first locating member and the cap.

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- The method according to claim 17, further comprising: 19. providing a pin adapted for reciprocal movement with respect to the bobbin; providing at least one bearing between the pin and the cap; and connecting the cap with a mount, the mount having a valve seat adapted for engaging the pin to control fluid flow.
- The method according to claim 19, further comprising: 20. adjusting the cap to reorient a conhector body formation of the cap with respect to the mount.

